

IN THE CLAIMS:

Please amend the claims as follows:

Claims 1-16 (Cancelled)

17. (previously presented) A solid substrate surface having (i) a defined layer of polymers and/or oligomers or (ii) a defined layer system of polymers and/or oligomers having controlled chain length and/or polydispersity on solid substrate surfaces.
18. (previously presented) A solid substrate surface as in claim 17, wherein said defined layer or defined layer system is produced by ATRP-polymerization.
19. (currently amended) A solid substrate surface having bonded thereto a compound of general formula (1)
A-L-I (1)
wherein
A is an anchor group bonding the compound to the solid substrate surface
I is a group for initiating a reaction which proceeds according to an ATRP-mechanism, and
L is a link between the groups A and I, ~~as initiator for an ATRP mechanism~~
as initiator for an ATRP-mechanism.

20. (previously presented) Solid substrate surface with a polymer and/or oligomer layer, produced by a process comprising the following steps:

- a) providing and optionally preparing a solid substrate surface,
- b) bonding to the solid substrate surface an initiator which includes a group I for initiation of a reaction which proceeds according to an ATRP-mechanism,
- c) subsequent to step b), carrying out on the solid substrate surface a first ATRP-polymerization initiated by the initiator, with radically polymerizable (a) monomers, (b) macromonomers, or (c) mixtures thereof, so that a first layer of polymers and/or oligomers is formed on the solid substrate surface.